MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAM –DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175–2474
T (786) 315–2590 F (786) 315–2599
www.miamidade.gov/pera/

NOTICE OF ACCEPTANCE (NOA)

Trulite Glass & Aluminum Solutions, LLC
800 Fairway Drive, Suite 200
Deerfield Beach, FL 33441

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami–Dade County PERA–Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "IGS 450 EZ" Aluminum Storefront–/ Window Wall System – N. I.

APPROVAL DOCUMENT: Drawing No. **AD11–24**, titled "Series IGS450EZ Alum. Storefront/ Window Wall System Non – Impact", sheets 1 through 7 of 7, dated 09/22/11, with the latest revision dated 03/15/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P. E., bearing the Miami–Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: None.

LIMITATIONS: Glazing to be 1–inch overall Insulated Glass.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Medley, Florida, model/series, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA No. 08–1024.07** and consists of this page 1 and evidence pages E–1, and E–2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J Gascon 4/5/12

NOA No. 11–1207.04
Expiration Date: April 04, 2017
Approval Date: April 05, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA's No.'s 08–1024.07 and 99–0217.04)
2. Drawing No. **AD11–24**, titled "Series IGS450EZ Alum. Storefront/ Window Wall System Non – Impact", sheets 1 through 7 of 7, dated 09/22/11, with the latest revision dated 03/15/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94;
   along with marked–up drawings and installation diagram of an aluminum storefront system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–7012** dated 03/06/07, signed and sealed by Michael Wenzel, P. E.
   (Submitted under previous NOA No. 08–1024.07)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94;
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94;
   3) Water Resistance Test, per FBC, TAS 202–94;
   along with marked–up drawings and installation diagram of an aluminum storefront system, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL–2082** and **FTL–2115**, dated 10/09/98, both signed and sealed by Gilbert Diamond, P. E.
   (Submitted under previous NOA No. 99–0217.04)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC–2004/ 2007, prepared by Al–Farooq Corporation, dated 10/10/08, signed and sealed by Humayoun Farooq, P. E.
   (Submitted under previous NOA No. 08–1024.07)
2. **Glazing complies with ASTM E1300–02/ 04**

D. QUALITY ASSURANCE

1. Miami–Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. None.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11–1207.04
Expiration Date: April 04, 2017
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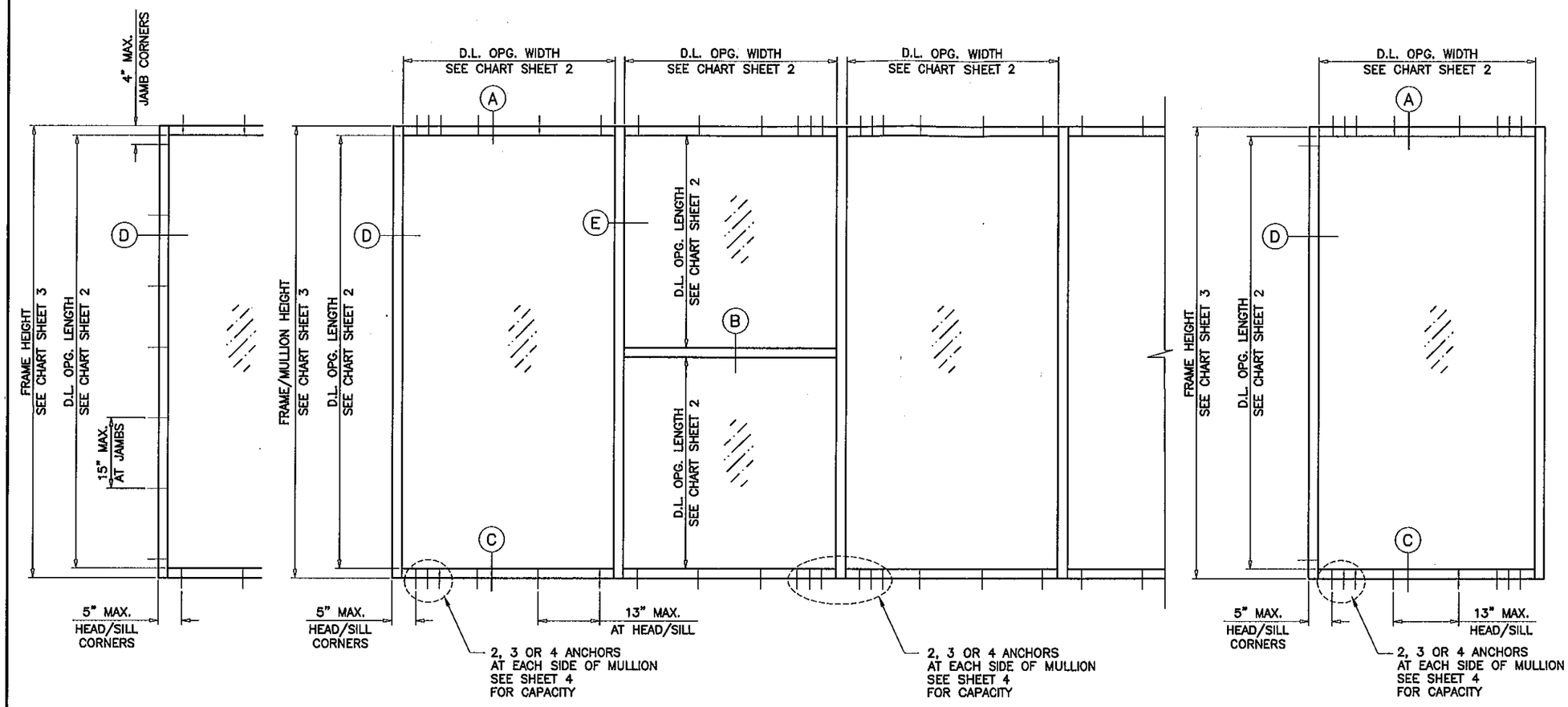
F. STATEMENTS

1. Statement letter of certification that the new extrusions–/ die–drawings by Sapa are identical with the extrusions–/ die–drawings by Bonnell and no additional calculations shall be required, dated 03/20/12, signed and sealed by Yiping Wang, P. E.
2. Statement letter of conformance, complying with FBC–2007 and FBC–2010, dated 12/01/11, signed and sealed by Yiping Wang, P. E.
3. Statement letter of no financial interest, dated 12/01/11, signed and sealed by Yiping Wang, P. E.
4. Letter of *Adoption of as his Own, the Work of another Engineer* per Section 61G15–27.001 of the F.B.P.E., dated 03/01/12 signed and sealed by Yiping Wang, P. E.
5. Florida Dept of State, listing of **Trulite Glass & Aluminum Solutions, LLC** (Foreign Limited Liability Co.), managed by Arch Intermediate Holding, LLC, Tamarac, Fl.
6. Certificate of Amendment to Certificate of Formation of Arch Aluminum & Glass, LLC aware to change its name to: **Trulite Glass & Aluminum Solutions, LLC,** issued by in State of Delaware, dated July 25, 2011, signed by Grace Kurowska, CFO, Vice President, Treasurer & Secretary.
7. Certificate of Authentication of name change to **Trulite Glass & Aluminum Solutions, LLC** issued by the Secretary of State of the State of Delaware, dated 07/27/11, signed by Jeffrey W. Bullock, Secretary of State.

G. OTHERS

1. Notice of Acceptance No. **08–1024.07**, issued to Arch Aluminum & Glass Inc. for their Series "**IGS 450 EZ Aluminum Storefront System – N.I.**", approved on 01/08/09 and expiring on 04/04/12.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11–1207.04
Expiration Date: April 04, 2017
Approval Date: April 05, 2012



TYPICAL ELEVATIONS

SERIES-IGS450EZ ALUMINUM STOREFRONT SYSTEM

- THIS SYSTEM IS NOT RATED FOR IMPACT.
  MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED.
- CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007/2010 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF WOOD ANCHORS ONLY.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FLORIDA BLDG. CODE SECTION 2003.8.4.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 SEE CHARTS ON SHEETS 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3 CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4 USING CHART ON SHEETS 4 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

- INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.
- INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

Trulite
GLASS & ALUMINUM SOLUTIONS℠
http://www.trulite.com
800 FAIRWAY DRIVE, Suite 200
DEERFIELD BEACH, FL 33441
p. 800-432-8132 | f. 954-724-2083

PRODUCT:

IGS450EZ
ALUM. STOREFRONT
WINDOW WALL SYSTEM
NON - IMPACT

REVN	DATE/REMARKS

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT
8501 SW 124 AVE STE. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MAR 15 2012

PRODUCT CONTROL APPROVAL:

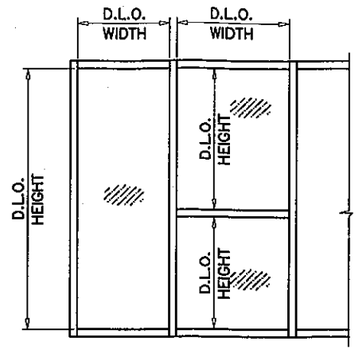
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1207.04
Expiration Date 04/04/2017
By
Miami Dade Product Control

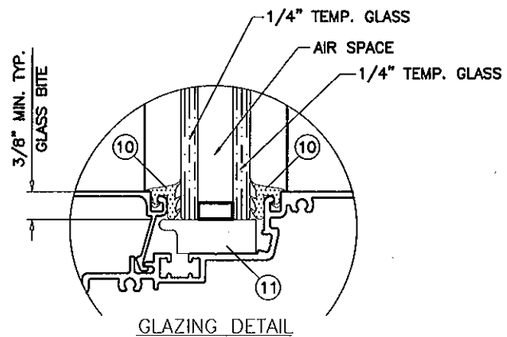
DRAWN: S.L.	DRAWING No:
DATE: 9-22-11	1 OF 7
DWG: AD11-24	

GLASS LOAD CAPACITY – PSF		
NOMINAL DIMS.		1/4" TEMP. GLASS
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(–)
22"	68"	100.0
28"		100.0
34"		100.0
40"		100.0
46"		100.0
52"		100.0
58"		100.0
64"		100.0
70"		100.0
22"	74"	100.0
28"		100.0
34"		100.0
40"		100.0
46"		100.0
52"		100.0
58"		100.0
64"		100.0
70"		100.0
22"	80"	100.0
28"		100.0
34"		100.0
40"		100.0
46"		100.0
52"		100.0
58"		100.0
64"		100.0
22"	86"	100.0
28"		100.0
34"		100.0
40"		100.0
46"		100.0
52"		100.0
58"		100.0
64"		100.0
22"	92'	100.0
28"		100.0
34"		100.0
40"		100.0
46"		100.0
52"		100.0
58"		100.0
22"	98"	100.0
28"		100.0
34"		100.0
40"		100.0
46"		100.0
52"		100.0

GLASS LOAD CAPACITY – PSF		
NOMINAL DIMS.		1/4" TEMP. GLASS
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)/INT.(–)
22"	104"	100.0
28"		100.0
34"		100.0
40"		100.0
46"		100.0
52"		100.0
22"	110"	100.0
28"		100.0
34"		100.0
40"		100.0
46"		100.0
22"	116"	100.0
28"		100.0
34"		100.0
40"		100.0
46"		100.0

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–04 (3 SEC. GUSTS)





GLAZING DETAIL

STEP 2: GLASS LOAD CAPACITY

Trulite
GLASS & ALUMINUM SOLUTIONS™
http://www.trulite.com
800 FAIRWAY DRIVE, Suite 200
DEERFIELD BEACH, FL 33441
p. 800-432-8132 | f. 954-724-2083

PRODUCT:

IGS450EZ
ALUM. STOREFRONT
WINDOW WALL SYSTEM
NON - IMPACT

REVN	DATE/REMARKS

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT
8501 SW 124 AVE STE. 205A
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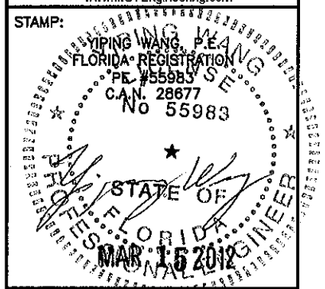
STAMP:



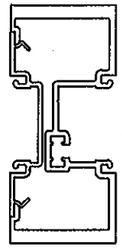
PRODUCT CONTROL APPROVAL:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1207.04
Expiration Date 02/04/2017
By
Miami Dade Product Control

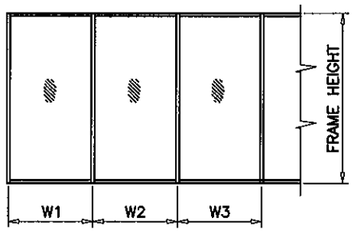
DRAWN: S.L.	DRAWING No:
DATE: 9–22–11	2 OF 7
DWG: AD11–24	

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS		
NOMINAL DIMS.		EXT. (+)
WIDTH (W)	FRAME HEIGHT	INT. (–)
24"	72"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
24"	78"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
24"	84"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		100.0
66"		100.0
72"		100.0
24"	90"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		100.0
60"		94.1
66"		88.9
24"	96"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		93.0
54"		85.1
60"		79.2
24"	102"	100.0
30"		100.0
36"		98.1
42"		85.7
48"		76.6
54"		69.9

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS		
NOMINAL DIMS.		EXT. (+)
WIDTH (W)	FRAME HEIGHT	INT. (–)
24"	108"	100.0
30"		97.3
36"		82.2
42"		71.6
48"		63.9
54"		58.1
24"	114"	100.0
30"		82.4
36"		69.5
42"		60.5
48"		53.9
24"	120"	87.3
30"		70.5
36"		59.4
42"		51.6
48"		45.8



MULLION

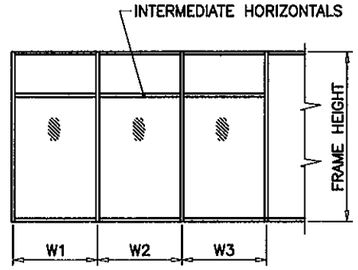


WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

MULLION LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS		
NOMINAL DIMS.		EXT. (+)
WIDTH (W)	FRAME HEIGHT	INT. (–)
24"	72"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		90.0
60"		75.0
66"		64.0
72"		55.0
24"	78"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		90.0
60"		75.0
66"		64.0
72"		55.0
24"	84"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		90.0
60"		75.0
66"		64.0
72"		55.0
24"	90"	100.0
30"		100.0
36"		100.0
42"		100.0
48"		100.0
54"		89.2
60"		75.0
66"		64.0
24"	96"	100.0
30"		100.0
36"		100.0
42"		96.1
48"		84.1
54"		74.8
60"		67.3
24"	102"	100.0
30"		100.0
36"		93.5
42"		80.1
48"		70.1
54"		62.3

MULLION LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS		
NOMINAL DIMS.		EXT. (+)
WIDTH (W)	FRAME HEIGHT	INT. (–)
24"	108"	100.0
30"		94.5
36"		78.8
42"		67.5
48"		59.1
54"		52.5
24"	114"	100.0
30"		80.4
36"		67.0
42"		57.4
48"		50.2
24"	120"	86.1
30"		68.9
36"		57.4
42"		49.2
48"		43.1



WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

STEP 3: MULLION LOAD CAPACITY

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PRODUCT:

IGS450EZ
ALUM. STOREFRONT
WINDOW WALL SYSTEM
NON - IMPACT

REVN	DATE/REMARKS

ENGINEER:
MCY ENGINEERING, INC.
GLAZING CONSULTANT
8501 SW 124 AVE STE. 205A
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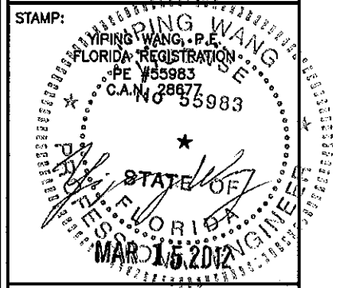
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

STAMP:



PRODUCT CONTROL APPROVAL:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1207.04
Expiration Date ~~07/09/2012~~ 07/09/2017
By
Miami Dade Product Control

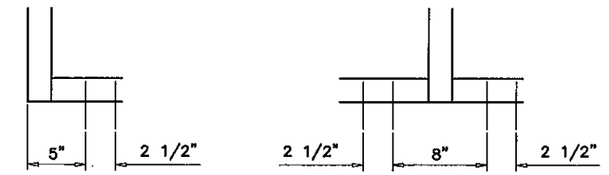
DRAWN: S.L.	DRAWING No:
DATE: 9-22-11	3 OF 7
DWG: AD11-24	

ANCHOR LOAD CAPACITY – PSF
EXT.(+) & INT.(–)

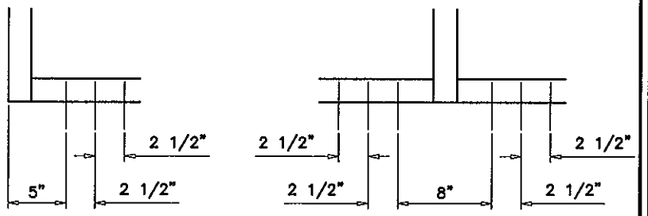
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'		ANCHORS TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	C2	C3
24"	60"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
72"		94.3	100.0	100.0	100.0	100.0	100.0	100.0
24"	66"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		93.6	100.0	100.0	100.0	100.0	100.0	100.0
72"		85.8	100.0	100.0	100.0	100.0	100.0	100.0
24"	72"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		94.3	100.0	100.0	100.0	100.0	100.0	100.0
66"		85.8	100.0	100.0	100.0	100.0	100.0	100.0
72"		78.6	100.0	100.0	100.0	100.0	100.0	100.0
24"	78"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		96.8	100.0	100.0	100.0	100.0	100.0	100.0
60"		87.1	100.0	100.0	100.0	100.0	100.0	100.0
66"		79.2	100.0	100.0	100.0	100.0	100.0	100.0
72"		72.6	100.0	100.0	92.3	100.0	100.0	100.0
24"	84"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		89.8	100.0	100.0	100.0	100.0	100.0	100.0
60"		80.9	100.0	100.0	100.0	100.0	100.0	100.0
66"		73.5	100.0	100.0	93.5	100.0	100.0	100.0
72"		67.4	94.3	100.0	85.7	100.0	94.0	100.0
24"	90"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		94.3	100.0	100.0	100.0	100.0	100.0	100.0
54"		83.9	100.0	100.0	100.0	100.0	100.0	100.0
60"		75.5	100.0	100.0	96.0	100.0	100.0	100.0
66"		68.6	96.0	100.0	87.3	100.0	95.8	100.0

ANCHOR LOAD CAPACITY – PSF
EXT.(+) & INT.(–)

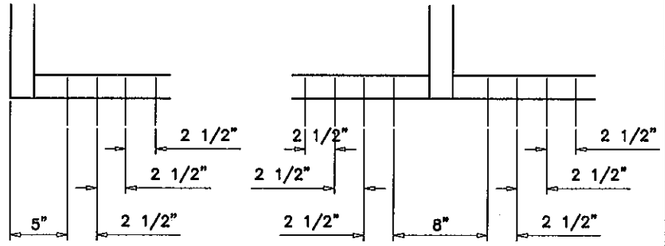
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'		ANCHORS TYPE 'B'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	C2	C3
24"	96"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		88.4	100.0	100.0	100.0	100.0	100.0	100.0
54"		78.6	100.0	100.0	100.0	100.0	100.0	100.0
60"		70.8	99.1	100.0	90.0	100.0	98.8	100.0
24"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		95.1	100.0	100.0	100.0	100.0	100.0	100.0
48"		83.2	100.0	100.0	100.0	100.0	100.0	100.0
54"		74.0	100.0	100.0	94.1	100.0	100.0	100.0
24"	108"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		89.8	100.0	100.0	100.0	100.0	100.0	100.0
48"		78.6	100.0	100.0	100.0	100.0	100.0	100.0
54"		69.9	97.8	100.0	88.9	100.0	97.5	100.0
24"	114"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		99.3	100.0	100.0	100.0	100.0	100.0	100.0
42"		85.1	100.0	100.0	100.0	100.0	100.0	100.0
48"		74.5	100.0	100.0	94.7	100.0	100.0	100.0
24"	120"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		94.3	100.0	100.0	100.0	100.0	100.0	100.0
42"		80.9	100.0	100.0	100.0	100.0	100.0	100.0
48"		70.8	99.1	100.0	100.0	100.0	90.0	100.0



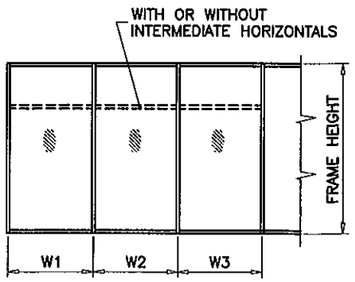
A2, B2, C2



A3, B3, C3



A4



WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

ANCHORS TYPES: SEE SHEET 5 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT JAMB AND EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT JAMB AND EACH SIDE OF MULLION
A4 = (4) ANCHORS TYPE 'A' AT JAMB AND EACH SIDE OF MULLION

B2 = (2) ANCHORS TYPE 'B' AT JAMB AND EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT JAMB AND EACH SIDE OF MULLION

C2 = (2) ANCHORS TYPE 'C' AT JAMB AND EACH SIDE OF MULLION
C3 = (3) ANCHORS TYPE 'C' AT JAMB AND EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

STEP 4: ANCHOR LOAD CAPACITY

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DEERFIELD BEACH, FL 33441
p. 800-432-8132 | f. 954-724-2083

PRODUCT:

IGS450EZ
ALUM. STOREFRONT
WINDOW WALL SYSTEM
NON - IMPACT

REVN	DATE/REMARKS

ENGINEER:
MCY ENGINEERING, INC.
GLAZING CONSULTANT
8501 SW 124 AVE STE. 205A
MIAMI, FL 33183
P: 305-271-0117
Email: MCY.Engineering@att.net
www.MCYEngineering.com

STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 28677
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MAR 15 2012

PRODUCT CONTROL APPROVAL:

PRODUCT REVISED
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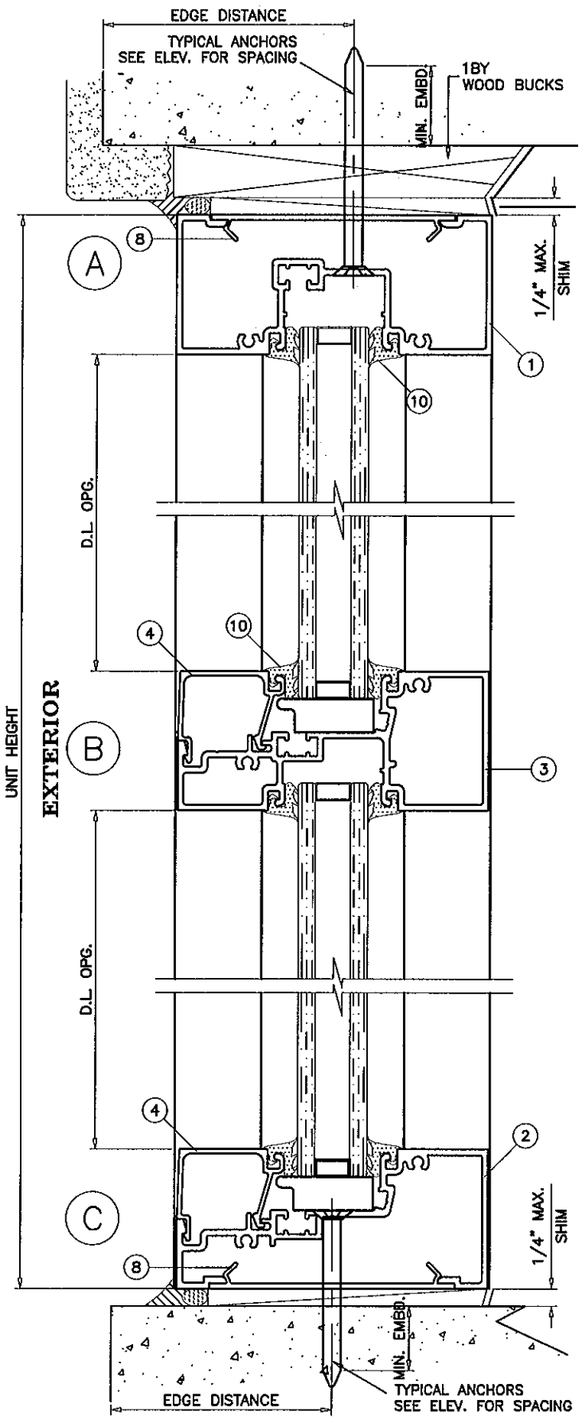
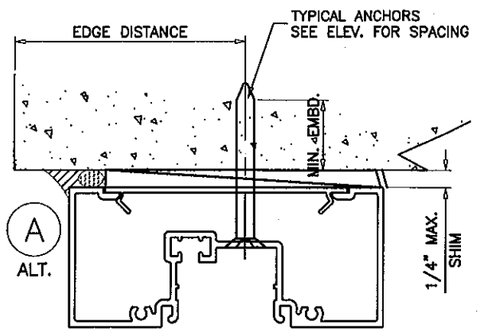
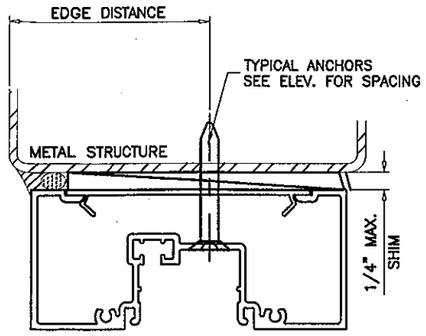
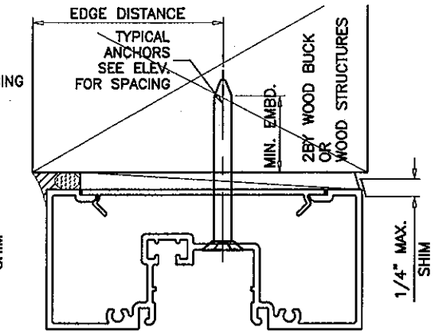
Acceptance No
Expiration Date 04/04/2017
By
Miami Dade Product Control

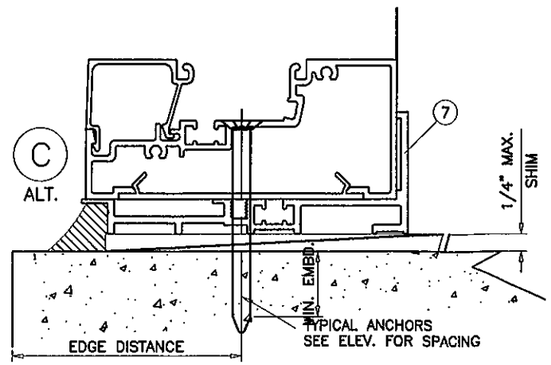
DRAWN: S.L.	DRAWING No:
DATE: 9-22-11	4 OF 7
DWG: AD11-24	











WOOD BUCKS NOT BY TRULITE. MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' 1/4" DIA. ULTRACON BY 'ELCO (Fu=177 KSI, Fy = 155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'B' 1/4" DIA. ULTRACON BY 'ELCO (Fu=177 KSI, Fy = 155 KSI)
DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'C' #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE f'C = 3000 PSI MIN.
MASONRY f'm = 1500 PSI MIN.

SEALANTS:

ALL FRAME CORNERS AND MULLION SEAMS SEALED WITH SCHNEE MOREHEAD 5504.

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PRODUCT:

IGS450EZ
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YIPING WANG, P.E.
FLORIDA REGISTRATION
LIPE #55983
C.A.N. 28677
No 55983
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PROFESSIONAL ENGINEER
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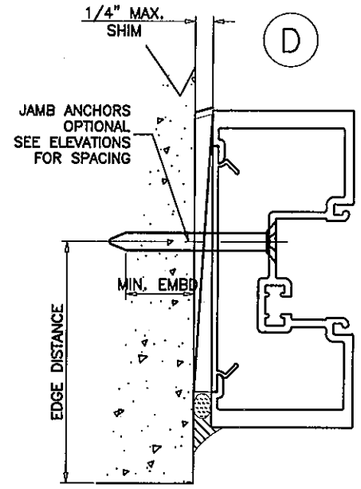
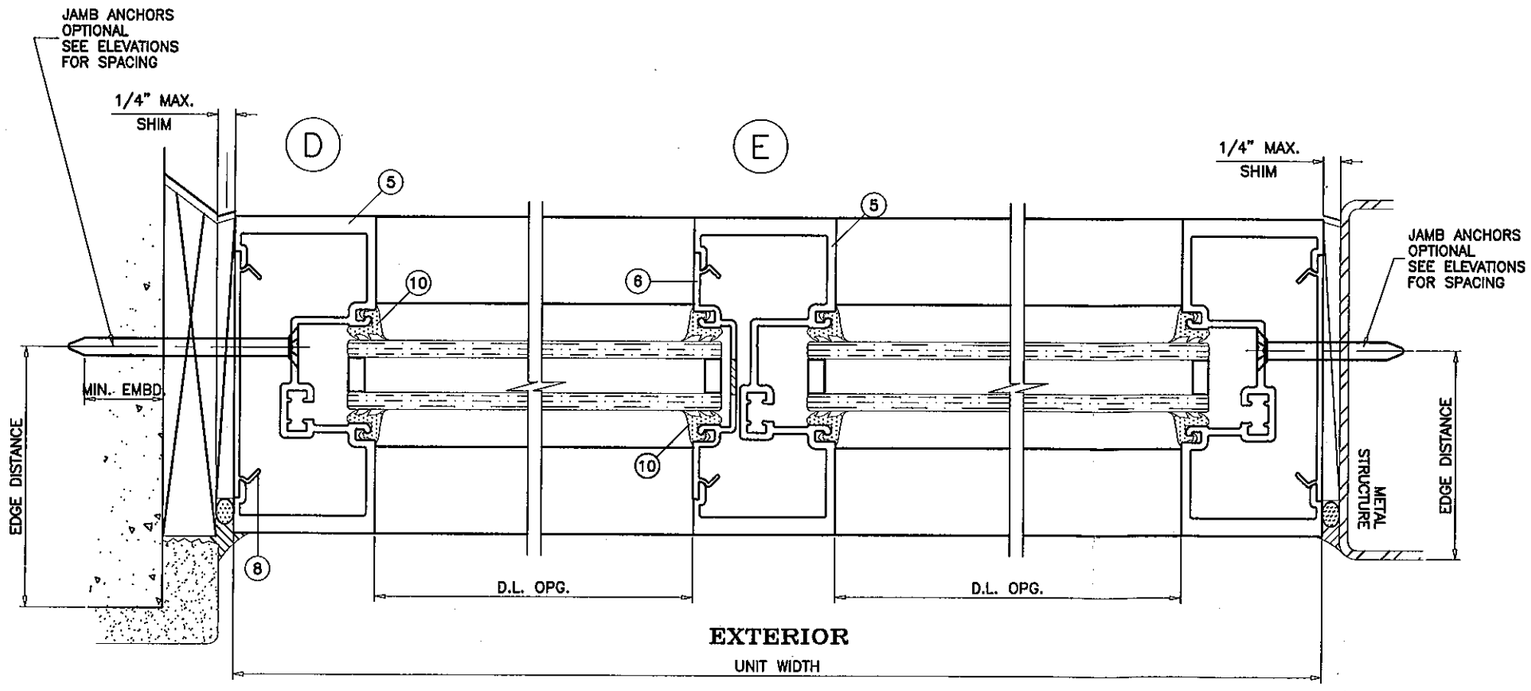


ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	40769	AS REQD.	FRAME HEAD	6063–T5	BONNELL/SAPA
2	40749	AS REQD.	FRAME SILL	6063–T5	BONNELL/SAPA
3	40950	AS REQD.	FRAME HORIZONTAL	6063–T5	BONNELL/SAPA
4	40748	AS REQD.	GLAZING STOP	6063–T5	BONNELL/SAPA
5	40793	AS REQD.	FRAME JAMB/MULLION	6063–T5	BONNELL/SAPA
6	40751	AS REQD.	POCKET FILLER	6063–T5	BONNELL/SAPA
7	40756	OPTIONAL	SILL FLASHING	6063–T5	BONNELL/SAPA
8	40055	AS REQD.	SNAP IN COVER, 4" LONG AT JAMB CONTINUOUS AT HEAD AND SILL	6063–T5	BONNELL/SAPA
10	RG1/H–63	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 70 SHORE–A
11	38693	2/ LITE	SETTING BLOCK AT 1/4" POINTS	EPDM	1" X 1/4" X 2" LONG DUROMETER 85 SHORE–D
12	23127	2/ CORNER	ASSEMBLY SCREWS PH SMS	STEEL	#10 X 1–3/4"



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NO. 55983
CERTIFICATE OF AUTHORIZATION
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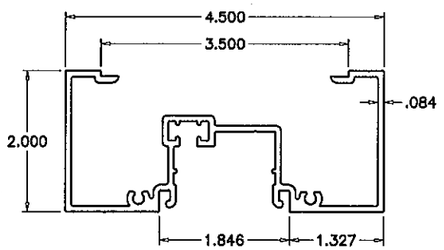
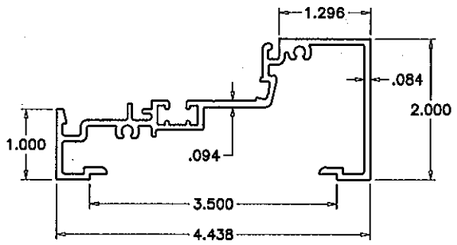
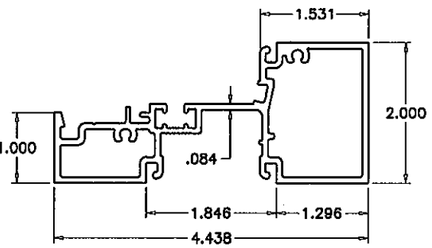


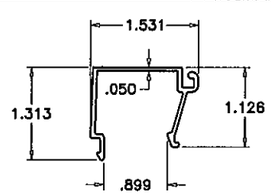
(1) OPEN BACK HEAD



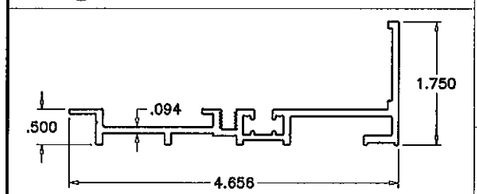
(2) OPEN BACK SILL



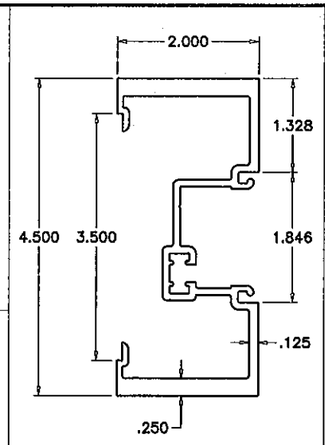
(3) INTERMEDIATE HORIZONTAL



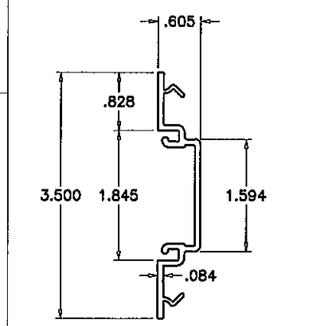
(4) GLAZING STOP



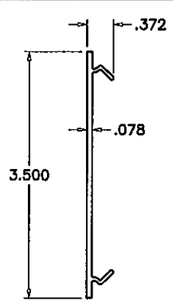
(7) SILL RECEPTOR (OPTIONAL)



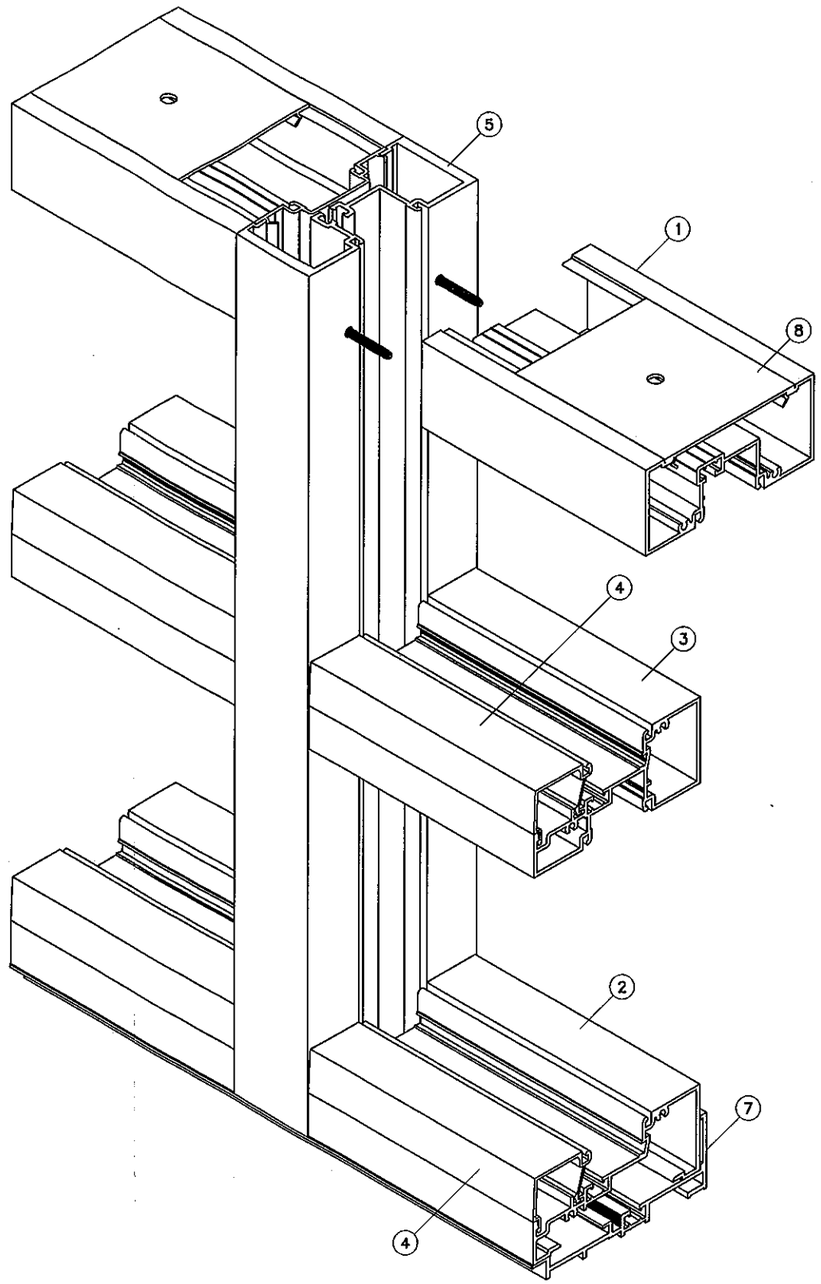
(5) HEAVY WAY/MULLION



(6) INSERT FOR OPEN BACK



(8) FLAT FILLER



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